3 Rec'd PCT/PTO 14 DEC 2009

PTO-1390 (Rev. 07-2005)

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TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US)

ATTORNEY'S DOCKET NUMBER 00910-05

CONCERNING A SUBMISSION UNDER 35 U.S.C. 371 INTERNATIONAL APPLICATION NO. INTERNATIONAL FILING DATE PRIORITY DATE CLAIMED PCT/US2004/019181 17 June 2004 (17.06.2004) 17 June 2003 (17.06.2003) TITLE OF INVENTION ERK7 and ERK8, Novel Diagnostic Markers for Cancer APPLICANT(S) FOR DO/EO/US UNIVERSITY OF VIRGINIA PATENT FOUNDATION; LANNIGAN-MACARA, Deborah A.; HENRICH, Lorin M. and SMITH, Jeffrey A. Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information: This is a **FIRST** submission of items concerning a submission under 35 U.S.C. 371. This is a SECOND or SUBSEQUENT submission of items concerning a submission under 35 U.S.C. 371. This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below. The US has been elected (Article 31). 5. X A copy of the International Application as filed (35 U.S.C. 371(c)(2)) is attached hereto (required only if not communicated by the International Bureau). has been communicated by the International Bureau. is not required, as the application was filed in the United States Receiving Office (RO/US). An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)). is attached hereto. has been previously submitted under 35 U.S.C. 154(d)(4). Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)) are attached hereto (required only if not communicated by the International Bureau). have been communicated by the International Bureau. have not been made; however, the time limit for making such amendments has NOT expired. have not been made and will not be made. An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)). An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)). 10. An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)). Items 11 to 20 below concern document(s) or information included: An Information Disclosure Statement under 37 CFR 1.97 and 1.98. An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included. 13. X A preliminary amendment. An Application Data Sheet under 37 CFR 1.76. A substitute specification. A power of attorney and/or change of address letter. A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821-1.825. A second copy of the published International Application under 35 U.S.C. 154(d)(4). A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).

This collection of information is required by 37 CFR 1.414 and 1.491-1.492. The information is required to obtain or retain a benefit by the public, which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 15 minutes to complete, including gathering information, preparing, and submitting the completed form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Mail Stop PCT, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450. Page 1 of 3

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| U.S. APPLICATION NO. (if known, see 37,CFR 1.5) | | | | INTERNATIONAL APPLICATION NO. PCT/US2004/019181 | | ATTORNEY'S DOCKET NUMBER 00910-05 | |
|--|--------------------|---------------|---|---|------------------------|-----------------------------------|--|
| 20. Other it | ems or information | on: | | | | | |
| The follow | wing fees have be | een submitted | | | CALCULATIONS | PTO USE ONLY | |
| 21. X Basic | national fee (37 (| CFR 1.492(a)) | ······································ | \$300 | \$ 300.00 |) | |
| 22. X Examination fee (37 CFR 1.492(c)) If the written opinion prepared by ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4)\$0 All other situations | | | | | \$ 200.00 | | |
| 23. X Search fee (37 CFR 1.492(b)) If the written opinion of the ISA/US or the International preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4) | | | | | \$ 100.00 | | |
| TOTAL OF 21, 22 and 23 = | | | | | 600.00 | | |
| Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing in compliance with 37 CFR 1.821(c) or (e) or computer program listing in an electronic medium) (37 CFR 1.492(j)). The fee is \$250 for each additional 50 sheets of paper or fraction thereof. | | | | | | | |
| Total Sheets | Extra Sheets | | additional 50 or fraction up to a whole number) | RATE | | | |
| 57 - 100 = | -43 /50 = | | | x \$250 | \$ 0.00 | ı l | |
| Surcharge of \$130.00 for furnishing any of the search fee, examination fee, or the oath or declaration after the date of commencement of the national stage (37 CFR 1.492(h)). | | | | | \$ 0.00 |) | |
| CLAIMS NUMB | | ER FILED | NUMBER EXTRA | RATE | \$ | | |
| Total claims | 20 | - 20 = | . 0 | x \$ 50 | \$ 0.00 | | |
| Independent claim | s 6 | - 3 = | 3 | × \$200 | \$ 600.00 | | |
| MULTIPLE DEPENDENT CLAIM(S) (if applicable) + \$360 | | | | | \$ 0.00 | | |
| TOTAL OF ABOVE CALCULATIONS = | | | | | \$ 1,200.00 | | |
| Applicant claims small entity status. See 37 CFR 1.27. Fees above are reduced by ½. | | | | | 600.00 | | |
| SUBTOTAL = | | | | | \$ 600.00 | | |
| Processing fee of \$130.00 for furnishing the English translation later than 30 months from the earliest claimed priority date (37 CFR 1.492(i)). | | | | | \$ 0.00 | | |
| TOTAL NATIONAL FEE = | | | | | \$ | 600.0 | |
| Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property + | | | | | \$ 0.00 | | |
| TOTAL FEES ENCLOSED = | | | | | \$ | 600.0 | |
| | | | | | Amount to be refunded: | \$ | |
| | | | | | Amount to be charged | \$ | |

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| b. X Please charge my Deposit Account No. 50-0423 in the amount of \$ A duplicate copy of this sheet is enclosed. | 600.00 to cover the above fees. | | | | | | |
| c. X The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No A duplicate copy of this sheet is enclosed. | | | | | | | |
| d. Fees are to be charged to a credit card. WARNING: Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038. | | | | | | | |
| NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status. | | | | | | | |
| | · | | | | | | |
| SEND ALL CORRESPONDENCE TO: | Robon Sperks | | | | | | |
| Rodney L. Sparks | · · | | | | | | |
| University of Virginia Patent Foundation | Rodney L. Sparks | | | | | | |
| 250 West Main Street, Suite 300 | · · · · · · · · · · · · · · · · · · · | | | | | | |
| Charlottesville, VA 22902 | 53,625 REGISTRATION NUMBER | | | | | | |
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| Date. December 14, 2003 | Suc Ailli Cari | | | | | | |
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PATENT
Attorney Docket No. 00910-05

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE U. S. RECEIVING OFFICE

Title:

ERK7 and ERK8, Novel Diagnostic Markers for Cancer

Certificate of Mailing Under 37 CFR §1.10 Express Mail No. ED 917 343 110 US

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Date: December 14, 2005

Sue Ann Carr

STATEMENT CLAIMING SMALL ENTITY STATUS (37 CFR §1.27 (a)(3)(C))

Mail Stop PCT U.S. Receiving Office Commissioner for Patents PO Box 1450 Alexandria, VA 22313-1450

Dear Sir:

With respect to the captioned invention, I hereby state that I am an official empowered to act on behalf of the University of Virginia Patent Foundation, a nonprofit organization, and that the University of Virginia Patent Foundation is Tax Exempt Under Internal Revenue Service Code (26 USC 501(a) and 501(c) (3)) and that the nonprofit organization identified above qualifies as a nonprofit organization, as defined in 37 CFR §1.27(a)(3)(C), for purposes of paying reduced fees under §§41(a) and (b) of Title 35, United States Code.

00910-05

Small Entity Statement

I hereby state that rights under contract or law remain with and have been conveyed to the University of Virginia Patent Foundation.

The University of Virginia Patent Foundation has licensed the rights to the following small business concern: Luna Innovations.

I acknowledge the duty to file, in this application or patent, notification of any change in status resulting in loss of entitlement to small entity status prior to paying, or at the time of paying, the earliest of the issue fee or any maintenance fee due after the date on which status as a small entity is no longer appropriate. (37 CFR §§1.27(g)(2)).

Respectfully submitted,

December 14, 2005

Rodney L. Sparks, In-House Patent Counsel University of Virginia Patent Foundation 250 West Main Street, Suite 300 Charlottesville, VA 22902 (434) 243-6103